CLAIMS

A cross-corrugated packing structure for installations for transferring material and/or heat between a gas phase and a liquid phase, comprising a first surface (10), called primary surface, having a plurality of parallel channels (11), said structure comprising a second surface (20), called secondary surface, consisting of a plurality of secondary packing elements (21; 31), each secondary packing element being arranged inside a channel (11) of said primary surface (10), characterized in that the secondary elements are formed separately from the first surface.

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2. The packing structure as claimed in claim 1, characterized in that said secondary packing elements (21; 31) have a periodic structure along the channels (11) of the primary surface (10).

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- The packing structure as claimed in claim 2, characterized in that said secondary packing elements (21; 31) are made from flat metal strips.
- 25 4. The packing structure as claimed in claim 3, characterized in that said flat metal strips are cut and/or perforated and/or bent.
- 5. The packing structure as claimed in claim 4, characterized in that said metal strips are bent alternately leftward and rightward into a Y shape.
- 6. The packing structure as claimed in claim 5, characterized in that the heel of the Y shape has periodic perforations (213).
 - 7. The packing structure as claimed in claim 4, characterized in that said flat metal strips are cut and bent to form corrugations.

- 8. The packing structure as claimed in claim 3, characterized in that said flat metal strips are twisted.
- 5 9. The packing structure as claimed in any one of claims 1 to 8, characterized in that said secondary packing elements (21, 31') have tabs (40, 40') for snap-in fastening in the channels (11) of the primary surface.

10. The packing structure as claimed in any one of claims 1 to 9, characterized in that the channels of

the primary surface have an S shape.

15 11. The packing structure as claimed in any one of claims 1 to 10, characterized by a distribution of cross section (1-x)/x between primary surface and secondary surface with x close to 0.5.